

**ABSTRACT**

A mine transportation management system capable of reducing cost by reducing the number of transportation vehicles is provided. For this purpose, the system includes a plurality of self-propelled vehicles and a plurality of vessels each having communication means, being identifiable, connectable to and separable from each other, a loading machine having communication means, a processing facility, and a management center having communication means. The management center selects a vessel to be transported and selects a self-propelled vehicle for transporting the selected vessel based on a transportation demand signal from the processing facility, and transmits a transportation command signal to the selected self-propelled vehicle to connect to the selected vessel and travel to the processing facility.